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US 6616969 B2	20030909	Apparatus and method for selectively coating internal and external surfaces of an airfoil	427/237	427/252; 427/253; 427/282	Pfaendtner; Jeffrey A. et al.
US 6607611 B1	20030819	Post-deposition oxidation of a nickel-base superalloy protected by a thermal barrier coating	148/277	148/285; 148/527; 148/537	Darolia; Ramgopal
US 6599568 B2	20030729	Method for cooling engine components using multi-layer barrier coating	427/230	427/239; 427/275; 427/402; 427/404; 427/419.2; 427/419.3; 427/554; 428/697	Lee; Ching-Pang et al.
US 6586115 B2	20030701	Yttria-stabilized zirconia with reduced thermal conductivity	428/633	416/241B; 428/307.3; 428/469; 428/699; 428/701; 428/702	Rigney; Joseph David et al.

US 6582772 B2	20030624	Method for preparing an article with a hafnium-silicon-modified platinum-aluminide bond or environmental coating	427/404	427/376.1; 427/383.1; 427/383.3; 427/383.7; 427/405; 427/419.1; 427/419.2	Rigney; Joseph D. et al.
US 6579627 B1	20030617	Nickel-base superalloy with modified aluminide coating, and its preparation	428/632	416/241R; 428/652; 428/668; 428/680	Darolia; Ramgopal et al.
US 6576067 B2	20030610	Fabrication of an article having a protective coating with a polished, pre-oxidized protective-coating surface	148/277	148/285; 427/248.1; 427/250; 427/255.32	Spitsberg; Irene et al.
US 6571857 B2	20030603	Processing of nickel aluminide material	164/57.1	148/556; 420/590	Darolia; Ramgopal et al.
US 6565672 B2	20030520	Fabrication of an article having a protective coating with a flattened, pre-oxidized protective-coating surface	148/277	148/285; 427/248.1; 427/250; 427/255.32; 428/469; 428/472.2; 428/623	Spitsberg; Irene et al.
US 6558813 B2	20030506	Article having a protective coating and an iridium-containing oxygen barrier layer	428/632	205/257; 205/264; 427/252; 428/469; 428/652; 428/670	Darolia; Ramgopal
US 6551061 B2	20030422	Process for forming micro cooling channels inside a thermal barrier coating system without masking material	416/97A	29/889; 416/241B	Darolia; Ramgopal et al.
US 6544665 B2	20030408	Thermally-stabilized thermal barrier coating	428/633	416/241B; 428/304.4; 428/332; 428/338; 428/469; 428/697; 428/699; 428/702	Rigney; Joseph David et al.
US 6528118 B2	20030304	Process for creating structured porosity in	427/258	427/250; 427/252;	Lee; Ching-Pang et al.

		thermal barrier coating		427/255.32; 427/255.7; 427/272; 427/282; 427/448; 427/456; 427/596	
US 6521294 B2	20030218	Aluminiding of a metallic surface using an aluminum-modified maskant, and aluminum-modified maskant	427/253	427/255.19; 427/255.21; 427/259; 427/261; 427/282	Rigney; Joseph D. et al.
US 6514629 B1	20030204	Article with hafnium-silicon-modified platinum-aluminum bond or environmental coating	428/632	416/241R; 428/652; 428/654; 428/670; 428/680; 428/941	Rigney; Joseph D. et al.
US 6511762 B1	20030128	Multi-layer thermal barrier coating with transpiration cooling	428/697	416/241B; 416/97R; 428/131; 428/133; 428/140; 428/218; 428/304.4; 428/307.3; 428/309.9; 428/469; 428/632; 428/699; 428/702	Lee; Ching-Pang et al.
US 6499949 B2	20021231	Turbine airfoil trailing edge with micro cooling channels	416/97R	29/889.2; 416/241R	Schafrik; Robert Edward et al.
US 6492038 B1	20021210	Thermally-stabilized thermal barrier coating and process therefor	428/627	428/304.4; 428/317.9; 428/469; 428/632; 428/698; 428/699; 428/701; 428/702	Rigney; Joseph David et al.
US 6482469 B1	20021119	Method of forming an improved aluminide bond coat for a thermal barrier coating system	427/250	427/255.7; 427/309; 427/376.6	Spitsberg; Irene T. et al.

US 6475642 B1	20021105	Oxidation-resistant coatings, and related articles and processes	428/636	148/325; 148/333; 148/425; 148/426; 148/428; 148/429; 148/442; 148/516; 148/527; 148/535; 420/104; 420/110; 420/127; 420/35; 420/437; 420/447; 420/448; 420/460; 420/469; 420/472; 420/551; 420/552; 420/580; 420/63; 420/68; 420/69; 420/70; 420/77; 420/80; 420/96; 428/680; 428/681	Zhao; Ji-Cheng et al.
US 6464456 B2	20021015	Turbine vane assembly including a low ductility vane	415/134	415/191; 415/209.2	Darolia; Ramgopal et al.
US 6461746 B1	20021008	Nickel-base superalloy article with rhenium-containing protective layer, and its preparation	428/632	416/241R; 428/469; 428/655; 428/678; 428/680; 428/699; 428/701	Darolia; Ramgopal et al.
US 6461108 B1	20021008	Cooled thermal barrier coating on a turbine blade tip	416/96R	29/889.1; 416/241R	Lee; Ching-Pang et al.
US 6461107	20021008	Turbine blade tip having	416/96R	29/889.1;	Lee; Ching-

B1		thermal barrier coating-formed micro cooling channels		416/241R	Pang et al.
US 6455167 B1	20020924	Coating system utilizing an oxide diffusion barrier for improved performance and repair capability	428/472.2	416/241R; 428/469; 428/472; 428/702	Rigney; Joseph D. et al.
US 6444057 B1	20020903	Compositions and single-crystal articles of hafnium-modified and/or zirconium-modified nickel-base superalloys	148/428	420/448	Darolia; Ramgopal et al.
US 6437991 B1	20020820	Radioelectronic unit	361/794	174/260; 174/261; 361/780	Rog; Andrey L. et al.
US 6436473 B1	20020820	Graded reactive element containing aluminide coatings for improved high temperature performance and method for producing	427/252	148/240; 205/192; 427/253; 427/255.7; 427/379; 427/383.7	Darolia; Ramgopal et al.
US 6375425 B1	20020423	Transpiration cooling in thermal barrier coating	416/97R	29/889.721; 416/241B	Lee; Ching-Pang et al.
US 6344282 B1	20020205	Graded reactive element containing aluminide coatings for improved high temperature performance and method for producing	428/652	416/241R; 428/678; 428/680; 428/941	Darolia; Ramgopal et al.
US 6332926 B1	20011225	Apparatus and method for selectively coating internal and external surfaces of an airfoil	118/721	118/504; 118/505; 118/720; 118/723VE	Pfaendtner; Jeffrey A. et al.
US 6306524 B1	20011023	Diffusion barrier layer	428/621	428/632; 428/651; 428/652; 428/654; 428/670; 428/680	Spitsberg; Irene T. et al.
US 6291084 B1	20010918	Nickel aluminide coating and coating systems formed therewith	428/633	416/241B; 416/241R; 428/621; 428/652; 428/680	Darolia; Ramgopal et al.
US 6283714	20010904	Protection of internal and	416/241R	415/217.1;	Rigney; Joseph

B1		external surfaces of gas turbine airfoils		416/241B	D. et al.
US 6273678 B1	20010814	Modified diffusion aluminide coating for internal surfaces of gas turbine components	415/200	29/889.7; 416/229A; 416/241B; 416/241R; 427/181; 427/182; 427/237; 427/252; 427/454; 428/469; 428/472; 428/632	Darolia; Ramgopal
US 6255001 B1	20010703	Bond coat for a thermal barrier coating system and method therefor	428/610	204/192.15; 416/241R; 427/250; 427/405; 427/456; 427/566; 428/621; 428/623; 428/632; 428/633; 428/652; 428/678; 428/679; 428/680	Darolia; Ramgopal
US 6190471 B1	20010220	Fabrication of superalloy articles having hafnium- or zirconium-enriched protective layer	148/537	148/527; 428/680	Darolia; Ramgopal et al.
US 6153313 A	20001128	Nickel aluminide coating and coating systems formed therewith	428/632	416/241B; 416/241R; 428/652; 428/680	Rigney; Joseph D. et al.
US 5834070 A	19981110	Method of producing protective coatings with chemical composition and structure gradient across the thickness	427/566	427/126.1; 427/126.2; 427/126.3; 427/567	Movchan; Boris A. et al.
US 5712050 A	19980127	Superalloy component with dispersion-containing protective coating	428/680	416/241R; 428/614; 428/678	Goldman; Edward Harvey et al.
US 5686785 A	19971111	Electron gun having	313/453	219/121.26;	Movchan;

		electrically isolated and adjustable cathode		219/121.27; 313/454; 313/459	Boris A. et al.
US 5516380 A	19960514	NiAl intermetallic alloy and article with improved high temperature strength	148/404	148/409; 148/429; 415/200; 416/241R	Darolia; Ramgopal et al.
US 5482789 A	19960109	Nickel base superalloy and article	428/652	148/404; 148/410; 148/428; 428/670; 428/680	O'Hara; Kevin S. et al.
US 5470371 A	19951128	Dispersion strengthened alloy containing in-situ-formed dispersoids and articles and methods of manufacture	75/229	148/410; 148/514; 419/11; 419/29; 419/49; 419/53; 75/236; 75/243; 75/246; 75/343	Darolia; Ramgopal
US 5316866 A	19940531	Strengthened protective coatings for superalloys	428/621	148/410; 420/443; 420/448; 428/632; 428/633; 428/678; 428/680	Goldman; Edward H. et al.
US 5296274 A	19940322	Method of producing carbon-containing materials by electron beam vacuum evaporation of graphite and subsequent condensation	427/566	427/122; 427/274; 427/576; 427/577; 427/580; 427/586	Movchan; Boris A. et al.
US 5242479 A	19930907	Apparatus and method for producing carbide coatings	75/10.13	423/346; 423/440	Movchan; Boris A. et al.
US 5215831 A	19930601	Ductility Ni-Al intermetallic compounds microalloyed with iron	428/614	148/404; 148/409; 148/429; 415/200; 416/223R; 416/241R; 420/459	Darolia; Ramgopal et al.
US 5151249 A	19920929	Nickel-based single	420/445	148/404;	Austin; Curtiss

		crystal superalloy and method of making		148/428; 148/675; 420/443	M. et al.
US 5116691 A	19920526	Ductility microalloyed NiAl intermetallic compounds	428/614	148/404; 415/200; 416/241R; 420/445; 420/450; 420/460	Darolia; Ramgopal et al.
US 5116438 A	19920526	Ductility NiAl intermetallic compounds microalloyed with gallium	148/404	420/460; 420/550; 428/608	Darolia; Ramgopal et al.
US 5100484 A	19920331	Heat treatment for nickel-base superalloys	148/562	148/404; 148/410; 148/675	Wukusick; Carl S. et al.
US 5043138 A	19910827	Yttrium and yttrium-silicon bearing nickel-base superalloys especially useful as compatible coatings for advanced superalloys	420/443	106/286.4; 106/286.5; 420/445; 428/614; 428/680	Darolia; Ramgopal et al.
US 4950331 A	19900821	Ceramic flux for welding low-alloy steels	106/313	106/228; 148/24; 148/26; 75/10.53; 75/10.54	Pokhodnya; Igor K. et al.
US 4922995 A	19900508	Method of producing monolithic metal blanks by freezing-on techniques	164/469	164/122; 164/483; 164/494	Movchan; Boris A. et al.
US 4849030 A	19890718	Dispersion strengthened single crystal alloys and method	148/562	148/404; 148/410; 148/675	Darolia; Ramgopal et al.
US 4312599 A	19820126	High temperature article, article retainer, and cushion	403/29	415/137; 416/241B	Darolia; Ramgopal
US 4276764 A	19810707	Die set for sizing sections	72/275	72/340; 72/464; 83/618; 83/694	Kozhevnikov; Vladislav A. et al.
US 4219363 A	19800826	Process for the preparation of Portland cement clinker	106/745	106/753; 106/757; 106/768	Tokar; Vladimir A. et al.
US 4130460 A	19781219	Fuel assembly for fast reactor	376/418	376/352; 376/412; 376/434;	Ilyunin; Vladimir G. et al.

				376/443; 376/445; 976/DIG.60; 976/DIG.67	
US 4128419 A	19781205	Nickel-base alloy	420/448	148/410; 148/675; 420/443	Terekhov; Kuzma I. et al.
US 4126811 A	19781121	Electron gun with linear thermionic cathode for electron-beam heating	313/453	219/121.12; 219/121.27	Movchan; Boris A. et al.
US 4121647 A	19781024	Method of producing a multilayer metal ingot by the electro-beam remelting of billets	164/494	164/94	Paton; Boris Evgenievich et al.
US 4105890 A	19780808	Device for electron-beam heating of materials	219/121.26	219/121.28; 313/431; 330/4.7	Movchan; Boris A. et al.
US 3875785 A	19750408	DIE FOR SIZING ROLLED SECTIONS	72/340	72/464; 83/914	Anisimov; Albert Viktorovich et al.
US 3821979 A	19740702	ELECTRON-BEAM FURNACE FOR REMELTING ELECTRODES	164/506	164/258; 164/323; 164/512	Paton; Boris Evgenievich et al.
US 3814829 A	19740604	DEVICE FOR ELECTRON-BEAM HEATING OF MATERIALS MAINLY FOR THEIR MELTING AND EVAPORATION	373/14	219/121.15; 219/121.26; 219/121.28; 219/121.33	Movchan; Boris Alexeevich et al.
US 3800850 A	19740402	ELECTRON BEAM MELTING INSTALLATION	164/506	164/258; 164/512	Paton; Boris Evgenievich et al.
US 3768305 A	19731030	INSTALLATION FOR TESTING PRESSURE TIGHTNESS OF CHECK VALVE CLOSING ELEMENT	73/45.5	73/46	Pechko; Mikail Alexeevich et al.
US 3749149 A	19730731	METHOD AND AN ELECTRON-BEAM FURNACE FOR INGOT PRODUCTION	164/494	141/283; 164/136; 164/94	Paton; Boris Evgenievich et al.
US 3593923 A	19710720	GAS BURNER	239/418	239/423; 431/160; 431/177	Soliterman; Natan Davydovich et

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